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BRS	BRS	BRS	BRS	Туре							
L12	L11	L10	L 9	L8	L7	16	L 5	L4	L3	L2	# #
365	2311	380	380	370	10	40252	26	64	53	467	Hits
heparin adj cofactor adj II	antithrombin adj III	protease adj nexin\$2	protease adj nexin\$1	heparin adj binding adj domain	(2 or 4) same (3 or 5) same 6	chimeric or (fusion adj protein)	<pre>TFPI-2 same (mutat\$3 or mutein or substitut\$3)</pre>	TFPI same (mutat\$3 or mutein or substitut\$3)	TFPI-2	TFPI	Search Text
USPAT; US-PGPUB; EPO; JPO; DERWENT	USPAT; US-PGPUB; EPO; JPO; DERWENT	USPAT; US-PGPUB; EPO; JPO; DERWENT	USPAT; US-PGPUB; EPO; JPO; DERWENT	DBs							
2003/04/2 7 14:24	2003/04/2 7 14:24	2003/04/2 7 14:19	2003/04/2 7 14:19	2003/04/2 7 14:18	2003/04/2 7 14:16	2003/04/2 7 14:15	2003/04/2 7 14:14	2003/04/2 7 14:13	2003/04/2 7 14:12	2003/04/2 7 14:12	Time Stamp
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	Туре	۲ #	Hi ts	Search Text	DBs	Time Stamp
12	BRS	L13	171	protein adj c adj inhibitor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/04,
13	BRS	L14	1636	platelet adj factor\$14	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/04, 7 14:24
14	BRS	L15	241	bovine adj pancreatic adj trypsin adj inhibitor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/04, 7 14:25
15	BRS	L16	7	ghilanten\$1related adj inhibitor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/04, 7 14:25
16	BRS	L17	22 3	(heparin adj binding adj domain) same ((protease adj nexin\$1) or (protease adj nexin\$12) or (antithrombin adj cofactor adj II) or (protein adj c adj inhibitor) or (platelet adj factor\$14) or (bovine adj inhibitor) or (bovine adj inhibitor)) or (ghilanten\$1related adj inhibitor)) or	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/04
17	BRS	L18	0	7 same 17	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/04 7 14:28

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0			2003/04/2 7 14:28	USPAT; US-PGPUB; EPO; 2003/04, JPO; DERWENT 7 14:28	creasey adj abla.in.		L20 23	BRS	19
0			2003/04/2 7 14:28	USPAT; US-PGPUB; EPO; JPO; DERWENT	USPAT; innis adj michael.in. US-PGPUB; EPO; JPO; DERWENT		L19 45	BRS	18
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FILE 'HOME' ENTERED AT 14:31:53 ON 27 APR 2003 => file medline caplus biosis embase scisearch agricola SINCE FILE TOTAL COST IN U.S. DOLLARS ENTRY SESSION 0.21 0.21 FULL ESTIMATED COST FILE 'MEDLINE' ENTERED AT 14:32:17 ON 27 APR 2003 FILE 'CAPLUS' ENTERED AT 14:32:17 ON 27 APR 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'BIOSIS' ENTERED AT 14:32:17 ON 27 APR 2003 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R) FILE 'EMBASE' ENTERED AT 14:32:17 ON 27 APR 2003 COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved. FILE 'SCISEARCH' ENTERED AT 14:32:17 ON 27 APR 2003 COPYRIGHT 2003 THOMSON ISI FILE 'AGRICOLA' ENTERED AT 14:32:17 ON 27 APR 2003 => s TFPI 3493 TFPI T₁1 => s TFPI-2 229 TFPI-2 L2=> s (chimeric protein) or (fusion protein) 5 FILES SEARCHED... 160224 (CHIMERIC PROTEIN) OR (FUSION PROTEIN) => s L1 (p) 12 (p) 133 L1 (P) L2 (P) L3 => duplicate remove 14 DUPLICATE PREFERENCE IS 'CAPLUS, BIOSIS' KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n PROCESSING COMPLETED FOR L4 3 DUPLICATE REMOVE L4 (0 DUPLICATES REMOVED) => d 15 1-3 ibib abs ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ACCESSION NUMBER: 2001:340475 BIOSIS PREV200100340475 DOCUMENT NUMBER: Chimeric proteins. TITLE: Innis, Michael A.; Creasey, Abla A. AUTHOR (S): ASSIGNEE: Chiron Corporation PATENT INFORMATION: US 6174721 January 16, 2001 Official Gazette of the United States Patent and Trademark SOURCE: Office Patents, (Jan. 16, 2001) Vol. 1242, No. 3, pp. No Pagination. e-file. ISSN: 0098-1133. DOCUMENT TYPE: Patent LANGUAGE: English possessing Kunitz-type domain 1 of ***proteins*** ***Chimeric*** ***TFPI*** - ***2*** and Kunitz-type domain 2 of ***TFPI*** are ***TFPI*** - ***2*** disclosed, as are muteins of ***TFPI*** and . Nucleic acid sequences, expression vectors and transformed host cells ***chimeric*** encoding and capable of producing the disclosed ***proteins*** and muteins are also disclosed. Finally, methods for prevention and treatment of septic shock using the ***chimeric***

and muteins are disclosed.

proteins

 L_5

ACCESSION NUMBER: 1996:29 CAPLUS DOCUMENT NUMBER: 124:325

Chimeric ***proteins*** and muteins of

tissue factor pathway inhibitors ***TFPI*** ***TFPI*** - ***2***

INVENTOR(S):

TITLE:

SOURCE:

Innis, Michael A.; Creasey, Alba A.

PATENT ASSIGNEE(S):

Chiron Corporation, USA PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
	WO 9604378	A2	19960215	WO 1995-US9464 19950725
	WO 9604378	A3	19960314	
	W: AU, CA,	JP, MX		
	RW: AT, BE,	CH, DE	, DK, ES,	FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
	US 5589359	Α	19961231	US 1994-286521 19940805
	US 5563123	Α		US 1995-437841 19950509
	US 5696088	Α	19971209	US 1995-436175 19950509
	CA 2196290	AA	19960215	CA 1995-2196290 19950725
	AU 9531500	A 1	19960304	AU 1995-31500 19950725
	AU 9531500 AU 710535	B2	19990923	
	EP 776366	A1	19970604	EP 1995-927478 19950725
	R: AT, BE,	CH, DE	, DK, ES,	FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
	JP 10503375	T2	19980331	JP 1996-506598 19950725
	US 6174721	B1	20010116	US 1997-943682 19971014
	US 2002197667	A1	20021226	US 2000-741106 20001221
PRIO	RITY APPLN. INFO			US 1994-286521 A 19940805
				US 1995-438184 B1 19950509
				WO 1995-US9464 W 19950725
				US 1997-943682 A1 19971014
AB	***Chimeric**	* *:	**proteins	*** possessing Kunitz-type domain 1 of
	TFPI -	***2**	** and F	Cunitz-type domain 2 of ***TFPI*** are
	provided, as are	e muteir	rs of **	'*TFPI*** and ***TFPI*** - ***2***
	Nucleic acid sec	quences,	expressi	on vectors, and transformed host cells
	encoding and cap	able of	producin	ng the disclosed ***chimeric***
	proteins	' and	muteins a	are also provided. ***Chimeric***
	proteins	were	e construc	ted with amino acid sequences capable of
	binding a cell s	urface	component	(glycosaminoglycan, heparin) such as
	peptide moieties	from p	rotease r	mexin-1, protease nexin-2, antithrombin
	III, heparin cof	actor 1	II, protei	n C inhibitor, platelet factor 4, boyine
	pancreatic tryps	sin inhi	lbitor, an	nd ghilanten-related inhibitors. The
	chimeric	**	**proteins	*** are produced as veast .alphafactor
	fusion	***	roteins**	* for secretion, or alternatively, may be
	ournmonand an a	فأنط لا يستال مان		

expressed as a ubiquitin ***fusion*** ***protein*** . Potential sites for N-liked glycosylation within ***TFPI*** (Asn116.fwdarw.Gln, Asn227.fwdarw.Gln) are removed using overlapping PCR and mutations och1, mn1, and alg3 are introduced in transformed yeast cells to prevent the prodn. of .alpha.-1,6-polymannose terminal carbohydrate moieties in the chimeric products. Finally, methods for prevention and treatment of septic shock using the ***chimeric*** ***proteins*** and muteins are described.

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1996:302444 CAPLUS DOCUMENT NUMBER: 124:334850

Production of homogeneous, biologically active tissue TITLE:

factor pathway inhibitor with yeast Innis, Michael A.; Creasey, Alba A.

PATENT ASSIGNEE(S): Chiron Corporation, USA SOURCE: PCT Int. Appl., 36 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

INVENTOR(S):

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WO 9604377
                       A1
                             19960
                                            WO 1995-US9377
          W: AU, CA, JP, MX
          RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
      CA 2196296
                       AA 19960215
                                          CA 1995-2196296 19950725
      AU 9531044
                       A1
                             19960304
                                            AU 1995-31044
                                                             19950725
      AU 707762
                       B2
                             19990722
      EP 774001
                       A1
                             19970521
                                           EP 1995-926779
                                                             19950725
      EP 774001
                       B1
                             20021016
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
      JP 10507071
                      T2
                                           JP 1995-506588 19950725
                           19980714
      AT 226249
                       E
                             20021115
                                            AT 1995-926779
                                                             19950725
      US 6103500
                       Α
                             20000815
                                           US 1997-854764
                                                             19970512
 PRIORITY APPLN. INFO.:
                                         US 1994-286530 A 19940805
                                        WO 1995-US9377
                                                        W 19950725
      A method for the prodn. of Tissue Factor Pathway Inhibitor ( ***TFPI***
 AB
      ) and Tissue Factor Pathway Inhibitor 2 ( ***TFPI*** - ***2*** ) and
      muteins thereof is disclosed wherein the protein is retained within a
      yeast cell during growth of the yeast cell and recovered from an insol.
      fraction prepd. from yeast cells contg. the protein. This method produces
      full-length, homogeneous TFP having the correct N-terminal amino acid
      sequence. Plasmid pLACI 4.1, which contains a chimeric gene encoding a
      ubiquitin-mature TFP1
                            ***fusion***
                                              ***protein*** , was prepd. S.
      cerevisiae strains VH6, AB122, and JSC310 transformed with this plasmid
     produced TFP1 at 5,10, and 15% of total protein, resp. The TFP1 was biol.
      active.
 => s heparin binding domain
          2995 HEPARIN BINDING DOMAIN
L6
 => s (protease nexin 1) or (protease nexin 2) or (antithrombin III) or (heparin cofactor II) or (
    4 FILES SEARCHED...
L7
         47084 (PROTEASE NEXIN 1) OR (PROTEASE NEXIN 2) OR (ANTITHROMBIN III)
               OR (HEPARIN COFACTOR II) OR (PROTEIN C INHIBITOR) OR (PLATELET
               FACTOR 4)
=> s (bovine pancreatic trypsin inhibitor) or (ghilanten-related inhibitor)
          3568 (BOVINE PANCREATIC TRYPSIN INHIBITOR) OR (GHILANTEN-RELATED
               INHIBITOR)
=> s 16 (p) (17 or 18)
L9
           159 L6 (P) (L7 OR L8)
=> d his
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L1
           3493 S TFPI
L2
            229 S TFPI-2
L3
         160224 S (CHIMERIC PROTEIN) OR (FUSION PROTEIN)
L4
              3 S L1 (P) L2 (P) L3
1.5
              3 DUPLICATE REMOVE L4 (0 DUPLICATES REMOVED)
L6
           2995 S HEPARIN BINDING DOMAIN
L7
          47084 S (PROTEASE NEXIN 1) OR (PROTEASE NEXIN 2) OR (ANTITHROMBIN II
L8
           3568 S (BOVINE PANCREATIC TRYPSIN INHIBITOR) OR (GHILANTEN-RELATED I
            159 S L6 (P) (L7 OR L8)
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=> s 14 (p) 19
L10
             0 L4 (P) L9
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L1
           3493 S TFPI
L2
            229 S TFPI-2
L3
         160224 S (CHIMERIC PROTEIN) OR (FUSION PROTEIN)
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L4 3	S L1 (P) L2 (P)						
L5 3	DUPLICATE REMOVE (0 DUPLICATES	REMOVED)					
L6 2995	S HEPARIN BINDING DOMAIN						
L7 47084	S (PROTEASE NEXIN 1) OR (PROTEASE	NEXIN 2) OR	(ANTITHROMBIN II				
L8 3568	S (BOVINE PANCREATIC TRYPSIN INHIB	ITOR) OR (GH	ILANTEN-RELATED I				
L9 159	S L6 (P) (L7 OR L8)						
L10 0	S L4 (P) L9						
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